



## Mini SMP Male Full Detent Connector Solder Attachment Surface Mount PCB

### RF Connectors Technical Data Sheet

PE44489

#### Configuration

- Full Detent Mini SMP Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Surface Mount Interface Type
- Solder Attachment

#### Features

- Max. Operating Frequency 65 GHz
- Good VSWR of 2.1:1
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

#### Applications

- General Purpose Test
- Space Saving for PCB Applications

#### Description

Pasternack's PE44489 Mini SMP male full detent connector with solder attachment for surface mount PCB is part of our full line of RF components available for same-day shipping. Our Mini SMP male connector operates up to a maximum frequency of 65 GHz and offers good VSWR of 2.1:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our Mini SMP male connector PE44489 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		65	GHz
VSWR			2.1:1	
Operating Voltage (AC)			325	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5	26.5 to 40	40 to 65			GHz
VSWR, Max	1.26:1	1.58:1	2.1:1			

Electrical Specification Notes:  
 Insertion loss =  $0.05 \times \sqrt{f(\text{GHz})}$  dB max up to 26.5 GHz.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Male Full Detent Connector Solder Attachment Surface Mount PCB PE44489](#)



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**Mechanical Specifications**

<b>Size</b>	
Length	0.16 in [4.06 mm]
Width/Dia.	0.157 in [3.99 mm]
Weight	0.00244 lbs [1.11 g]
Mating Cycles	100 Cycles

**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PEEK	
Body	Brass	Gold

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-55 to +155 deg C
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Condition A
Vibration	MIL-STD-202, Method 204, Condition A
Thermal Shock	MIL-STD-202, Method 107, Condition B

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Attachment Surface Mount PCB

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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

Mini SMP Male Full Detent Connector Solder Attachment Surface Mount PCB from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

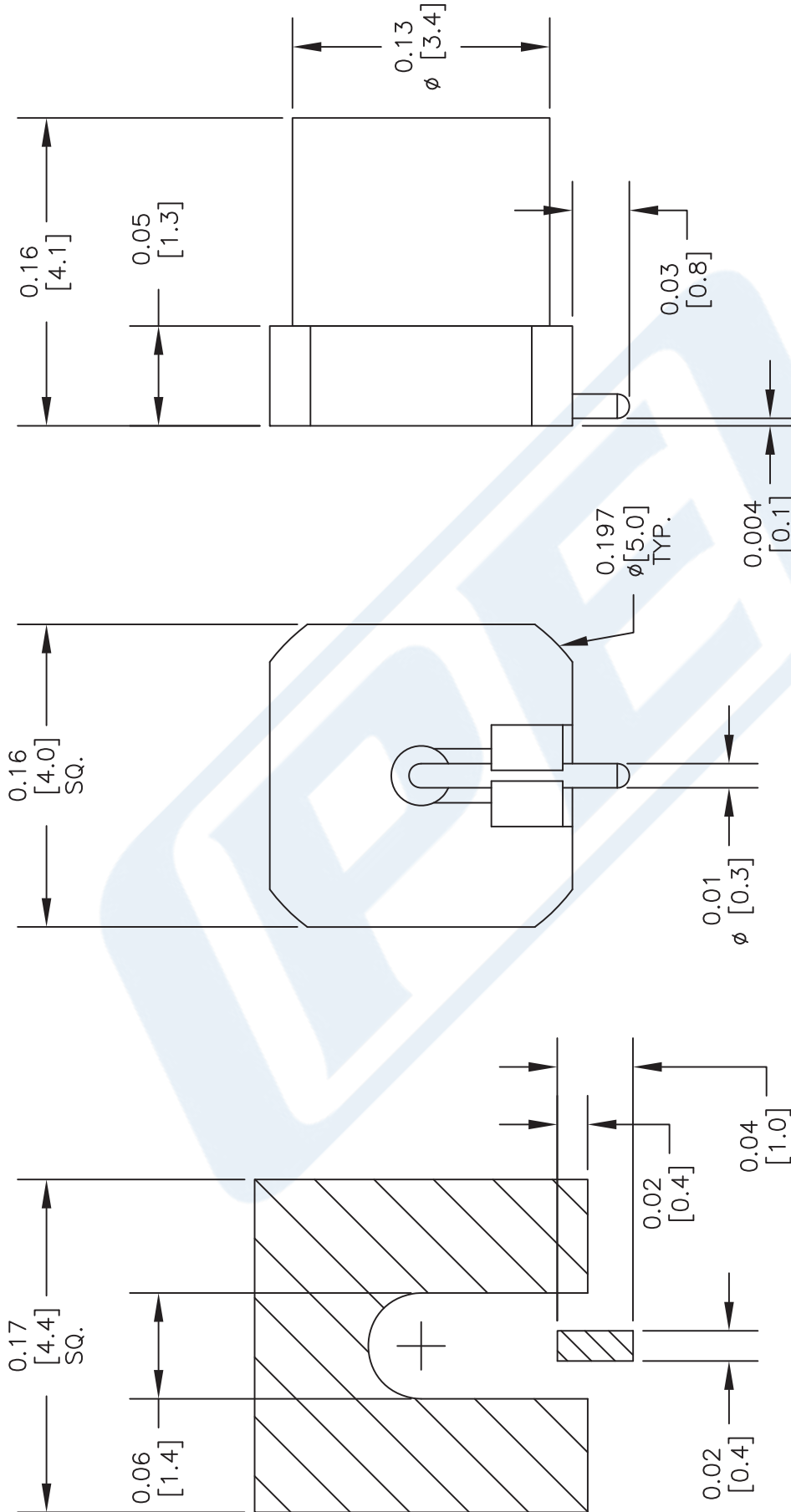
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URL: <https://www.pasternack.com/mini-smp-male-standard-surface-mount-pcb-connector-pe44489-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE44489 CAD Drawing

Mini SMP Male Full Detent Connector Solder Attachment Surface Mount PCB



PCB LAYOUT

DWG TITLE

**PE44489**

- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].
  4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. A FSCM NO. 53919

CAD FILE 022513

SCALE N/A

SIZE A

2233



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